



**THE PORT AUTHORITY
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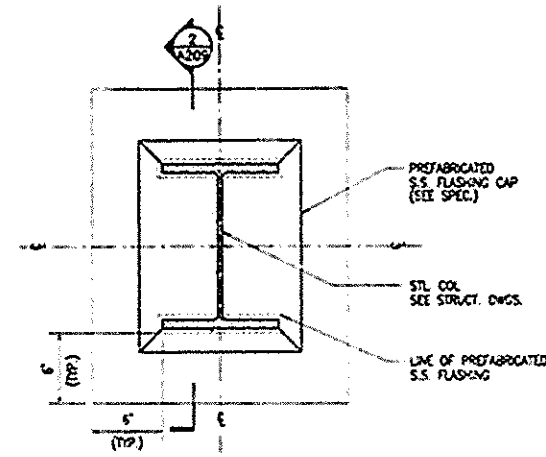
**Joseph R. Loring
& Associates, Inc.**
consulting engineers

One Pennsylvania Plaza
New York, New York 10001-2245
Tel: 212 512-7400, Fax: 212 512-7382

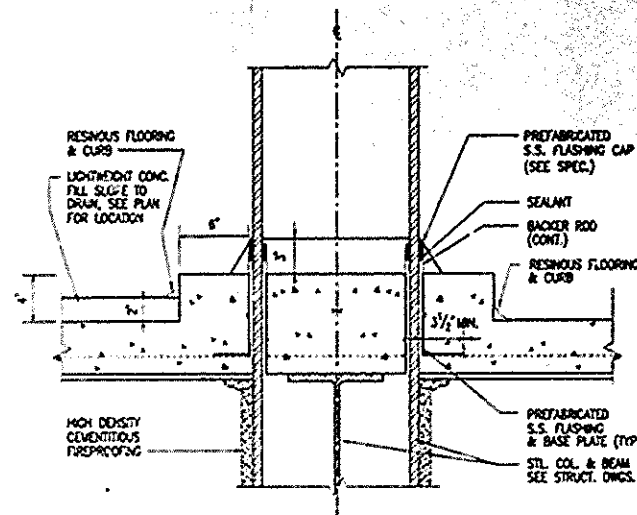
THE OFFICE OF
DAVID
ELIYAH
LEIBOWITZ
P.C.

REGISTERED PROFESSIONAL ENGINEER
IN THE STATE OF NEW YORK, NO. 10001

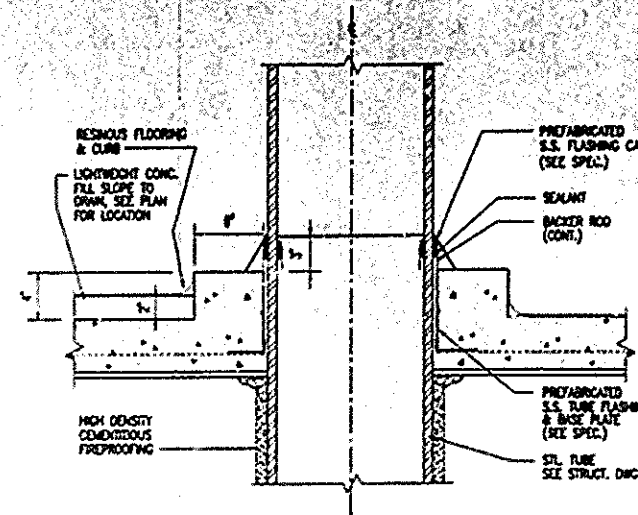
**LESLIE E. ROBERTSON
ASSOCIATES, P.L.L.C.**
CONSULTING STRUCTURAL ENGINEERS
30 EAST 45TH STREET
NEW YORK, NY 10017-2400
TEL: 212 685-8000 FAX: 212 685-8000



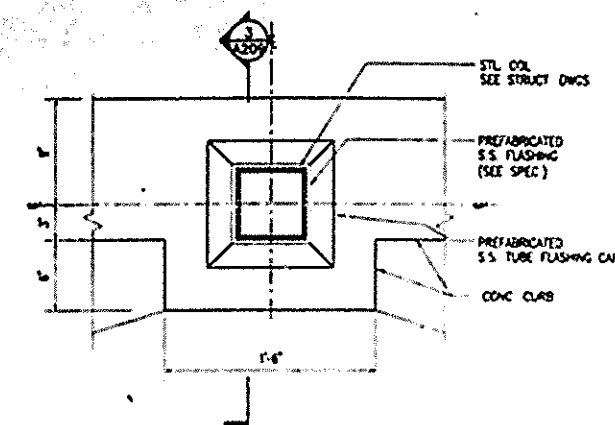
1 TYPICAL PLAN DETAILS OF
PREFABRICATED S.S. H COLUMN CAP



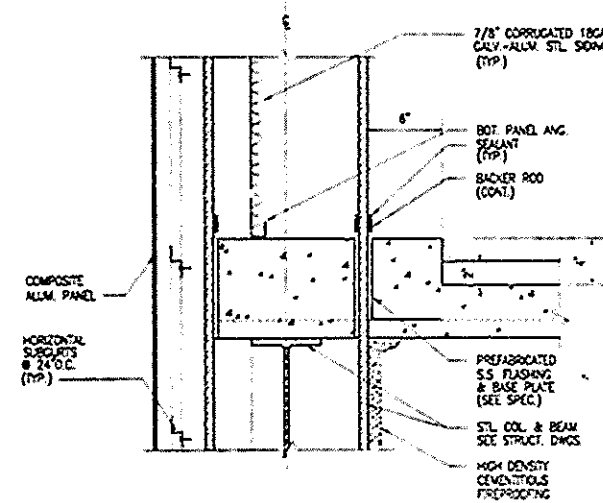
2 TYPICAL SECTION THRU PREFABRICATED
S.S. H-BEAM FLASHING @ COLUMNS



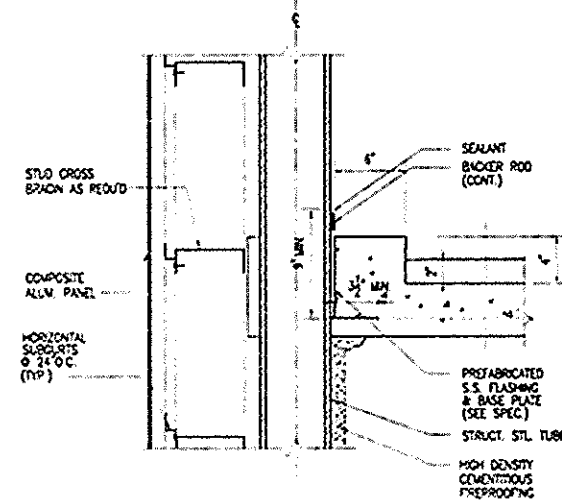
3 TYPICAL SECTION THRU
PREFABRICATED S.S. SQUARE TUBE
FLASHING @ COLUMNS



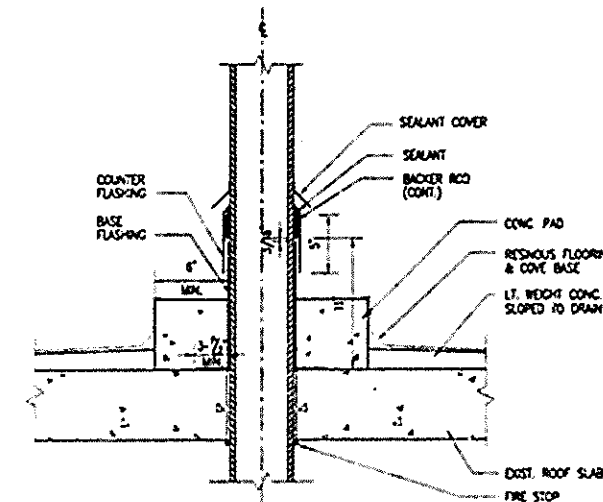
4 TYPICAL PLAN DETAIL OF
PREFABRICATED SQUARE TUBE CAP



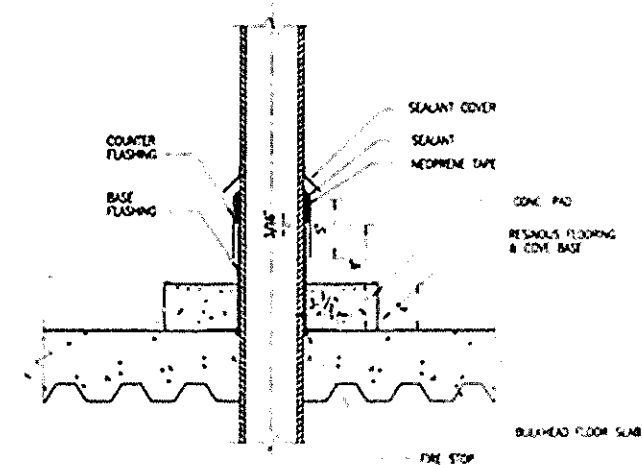
5 TYPICAL SECTION THRU PREFABRICATED
S.S. H COLUMN FLASHING @ EXT. WALL



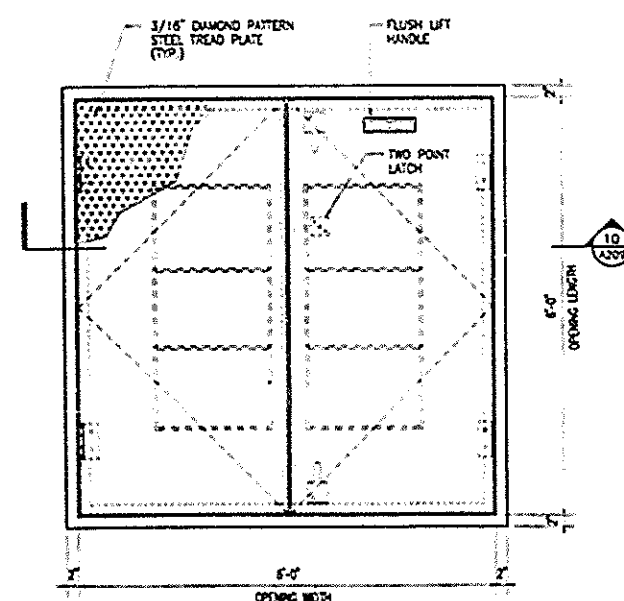
6 TYPICAL SECTION THRU PREFABRICATED
S.S. TUBE COLUMN FLASHING @ EXT. WALL



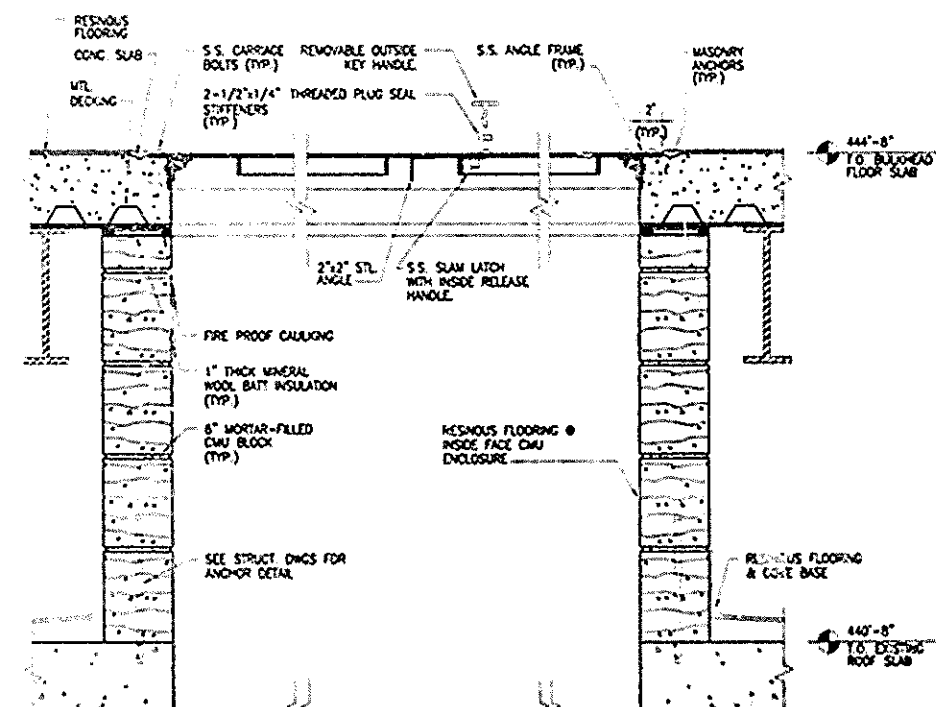
7 TYPICAL SECTION THRU
PREFABRICATED S.S. PIPE OR CONDUIT
FLASHING @ EXIST. ROOF SLAB



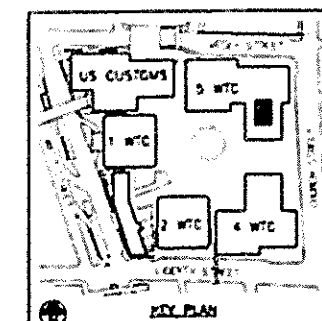
8 TYPICAL SECTION THRU
PREFABRICATED S.S. PIPE OR CONDUIT
FLASHING @ BULKHEAD SLAB/PAD



9 3 HOUR FIRE RATED FLOOR DOOR



10 SECTION



This drawing subject to conditions in contract
for alterations, ideas, designs and methods
herein are reserved to Port Authority and
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STANDBY POWER
5 WORLD TRADE CENTER
ARCHITECTURAL
BULKHEAD FLOOR &
EXISTING ROOF SLAB
PENETRATION DETAILS
Date 11/17/97 Scale AS SHOWN
Contract Number WTC-945.071 Drawing Number A2-09